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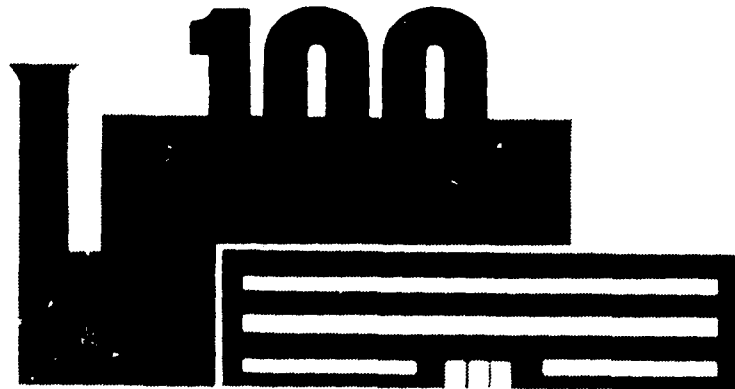


100 COMPANIES
RECEIVING THE LARGEST DOLLAR VOLUME
OF PRIME CONTRACT AWARDS
Fiscal Year 1981

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Department of Defense

**100 COMPANIES
RECEIVING THE LARGEST DOLLAR VOLUME
OF PRIME CONTRACT AWARDS**

Fiscal Year 1981

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FOREWORD

This report is published annually by the Office of the Secretary of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports. It contains summary data on the 100 companies and their subsidiaries which were awarded the largest total dollar volume of Department of Defense prime contract awards during Fiscal Year 1981.

Requests for additional information should be addressed to the Director, Washington Headquarters Services, Room 3E843, The Pentagon, Washington, D.C. 20301.

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Please Note: In the first printing of this report (January 1982), two firms were incorrectly included as subsidiaries of the General Electric Company. They have been removed; all effected amounts and percentages have been adjusted.

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INTRODUCTION

This report presents summary data on the 100 companies and their subsidiaries receiving the largest dollar volume of Department of Defense (DOD) prime contract awards during Fiscal Year (FY) 1981. Table 1 (page 7) lists the 100 companies in alphabetical order and gives their associated rank. Table 2 (page 8) identifies the parent companies in rank order, with their subsidiaries, and gives the total net value of awards for both the parent company and its subsidiaries. In many cases the parent company receives no awards itself but appears on the list because of its subsidiaries. Table 2 also shows what percent of the total awards each company's awards represent as well as the cumulative percent represented by all companies.

NOTES ON COVERAGE

Data in this report reflect the net value of both debit and credit procurement actions over \$10,000, e.g., the value of a terminated contract or other downward adjustment to a contract is deducted from a firm's total award amount, while modifications and other positive adjustments are treated as increases. Procurement actions include definitive contracts, the obligated portions of letter contracts, job orders, task orders, delivery orders, and any other orders against existing contracts. Research and development, services, construction, and supply and equipment contracts, worldwide, are included.

The report does not include those parts of indefinite quantity contracts that have not been translated into specific orders to business firms, or those contracts that have not yet become mutually binding agreements between the government and the company. The company totals do not include contracts made by other U.S. Government agencies and financed with Department of Defense funds or contracts awarded in foreign nations through their respective governments.

The assignment of subsidiaries to parent companies is based on stock ownership of 50 percent or more by the parent company, as indicated by data published in standard industrial reference sources. The company names and corporate structures are those in effect as of September 30, 1981. For the purposes of this report company names have been retained unless specific knowledge was available that a company has been merged into the parent or absorbed as a division with loss of company identity. Only those subsidiaries are shown for which procurement actions have been reported.

HIGHLIGHTS OF FY 1981 DATA

Department of Defense prime contract awards over \$10,000 totaled \$97.4 billion during FY 1981, \$20.6 billion more than in FY 1980. The 100 firms and their subsidiaries receiving the largest amount of DOD contracts in FY 1981 received \$64.7 billion or 66.4 percent of this amount, primarily for aircraft, missile/space systems, ships, and electronics/communications equipment. In FY 1980, the top 100 companies received \$50.6 billion or 65.9 percent of all awards.

Table A below shows that the first five companies received 17.7 percent of the total received by all companies in FY 1981, compared with 18.8 percent during FY 1980. The company ranked as number one in FY 1981, McDonnell Douglas Corporation, received awards totaling \$4.4 billion, compared with awards totaling \$3.5 billion for the number one company in FY 1980. The smallest amount received by a company on the FY 1981 list was \$119 million, compared with \$86 million in FY 1980.

TABLE A

| Company Position | PERCENT OF TOTAL | | | |
|---------------------|------------------|---------|---------|---------|
| | FY 1978 | FY 1979 | FY 1980 | FY 1981 |
| 1st | 7.0% | 5.5% | 4.6% | 4.5% |
| 2nd | 4.8 | 5.1 | 4.2 | 3.9 |
| 3rd | 4.0 | 4.0 | 4.0 | 3.5 |
| 4th | 3.7 | 3.2 | 3.1 | 3.0 |
| 5th | 3.0 | 3.0 | 2.9 | 2.8 |
| TOTAL 1-5 | 22.5 | 20.7 | 18.8 | 17.7 |
| 6-10 | 11.9 | 10.8 | 11.0 | 10.4 |
| 11-25 | 14.3 | 14.6 | 15.4 | 15.6 |
| TOTAL 1-25 | 48.7 | 46.1 | 45.2 | 43.8 |
| 26-50 | 11.1 | 11.0 | 11.6 | 12.4 |
| 51-75 | 5.4 | 5.8 | 5.8 | 6.4 |
| 76-100 | 3.3 | 3.5 | 3.3 | 3.8 |
| TOTAL 1-100 | 68.5% | 66.4% | 65.9% | 66.4% |

Changes in the Top 100 Companies, FY 1980 to FY 1981

Nineteen contractors who did not appear on the list last year are among the top 100 companies this year. (See Table B, page 5.) Of these, one appears in position 13, one in position 44, and the balance between positions 50 and 100. The nineteen contractors who appeared on the FY 1980 list who do not appear on this year's list are also shown in Table B.

Of the 81 companies appearing on the list in both Fiscal Years 1980 and 1981, 34 advanced their position, 43 are in a lower position, and 4 showed no change. Companies are considered as appearing on the list in both years despite mergers, acquisitions, divestitures, and name changes if a major component of a newly constituted company or the newly constituted company itself made the list as a component of a company in the top 100 in the prior year.

TABLE B

| Companies Listed in FY 1981 But Not in FY 1980* | Companies Listed in FY 1980 But Not in FY 1981 |
|---|--|
| Al Huseini British Petroleum Co., Ltd. Burroughs Corp. Chin Hueng Intl. & Gen. Constr., JV Dupont, E. I. DeNemours & Co. Ex Cell O Corp. GATX Corp. Houston Oil & Refining, Inc. ICCI & Al Miraibid Etal, JV Kuwait National Petroleum Co., Ltd. Mason Chamberlain, Inc. Morrison-Knudsen Co., Inc. Philbro Corp. Roarda, Inc. Science Applications, Inc. Transamerica Corp. U.S. & South American Enterprises Vinnell Corp. Williams International Corp. | Centex Corp. City Investing Co. Computer Sciences Corp. Felec Services, Inc. First Colony Farms, Inc. General Agencies & Sam Whan, JV Groves, Kiewit Granite, JV Hanil Dev. Co. Ltd. & Al Mabani, JV Harsco Corp. Hewlett Packard Co. Imperial Chemical Industries, Ltd. Kasler Continental Heller Etal, JV Loral Corp. Mi Ryung Construction Co., Ltd. Montedison, SPA Sam Whan Corp. Saudi Maintenance Co., Ltd. Sun Chemical Corp. Sverdrup Corp. |

*Excludes Chamberlain Manufacturing Company, which is now a subsidiary of Duchossis Thrall Company, and G. K. Technologies, which is now a subsidiary of Penn Central Corporation.

Primary Procurement Categories of the Top 100 Companies

Although the contract work of many companies on the list includes more than one procurement category, each company has been assigned in Table C (page 4) to the procurement category that accounts for its largest dollar volume of DOD awards; for example, International Telephone and Telegraph Corporation is a multi-industry company producing electronic and communications equipment and industrial and consumer products. For this table, it has been assigned to "Electronics", the procurement category accounting for its largest dollar volume of DOD contract awards. On this basis, the number of companies on the list supplying petroleum increased by five, those supplying missiles, ships, and tank-automotive each increased by two, while all other categories either showed no change or decreased.

TABLE C

NUMBER OF COMPANIES

| <u>Procurement Category</u> | <u>FY 1980</u> | <u>FY 1981</u> | <u>Change</u> |
|-----------------------------|----------------|----------------|---------------|
| Aircraft | 16 | 16 | 0 |
| Missiles | 13 | 15 | 2 |
| Ships | 4 | 6 | 2 |
| Tank-Automotive | 5 | 7 | 2 |
| Ammunition | 7 | 5 | -2 |
| Electronics | 18 | 17 | -1 |
| Services | 10 | 6 | -4 |
| Construction | 5 | 3 | -2 |
| Petroleum | 19 | 24 | 5 |
| Weapons | 2 | 0 | -2 |
| Subsistence | 0 | 0 | 0 |
| All Other | 1 | 1 | 0 |

Companies With Prime Contract Awards Totaling Over \$1 Billion

During FY 1981, 18 companies received prime contract awards totaling over \$1 billion. Each company is listed in Table D by rank, along with its FY 1980 rank and the dollar value of the awards it received in both FY 1980 and FY 1981. Table E (page 5) describes the major products of these 18 companies.

TABLE D

| <u>Rank</u> | | <u>Company Name</u> | <u>Awards</u> <u>(In Billions)</u> | |
|-------------|-------------|------------------------------|---------------------------------------|-------------|
| <u>1981</u> | <u>1980</u> | | <u>1981</u> | <u>1980</u> |
| 1 | 2 | McDonnell Douglas Corp. | \$4.4 | \$3.2 |
| 2 | 3 | United Technologies Corp. | 3.8 | 3.1 |
| 3 | 1 | General Dynamics Corp. | 3.4 | 3.5 |
| 4 | 5 | General Electric Co. | 3.0 | 2.2 |
| 5 | 4 | Boeing Co. | 2.7 | 2.4 |
| 6 | 6 | Lockheed Corp. | 2.7 | 2.0 |
| 7 | 7 | Hughes Aircraft Co. | 2.6 | 1.8 |
| 8 | 8 | Raytheon Co. | 1.8 | 1.7 |
| 9 | 10 | Grumman Corp. | 1.7 | 1.3 |
| 10 | 13 | Chrysler Corp. | 1.4 | 1.0 |
| 11 | 20 | Litton Industries, Inc. | 1.4 | .7 |
| 12 | 18 | Martin Marietta Corp. | 1.3 | .8 |
| 13 | N/A | Philbro Corp. | 1.2 | N/A |
| 14 | 29 | Exxon Corp. | 1.2 | .5 |
| 15 | 9 | Tenneco, Inc. | 1.2 | 1.5 |
| 16 | 14 | Rockwell International Corp. | 1.1 | 1.0 |
| 17 | 15 | Westinghouse Electric Corp. | 1.1 | .9 |
| 18 | 17 | FMC Corp. | 1.1 | .8 |

TABLE E

| <u>Company</u> | <u>Major Products</u> |
|------------------------------|---|
| 1. McDonnell Douglas Corp. | F-15 EAGLE, F-4 PHANTOM, F-18 HORNET fighter aircraft, and C-10 cargo aircraft. HARPOON, TOMAHAWK, and DRAGON missiles. |
| 2. United Technologies Corp. | F-100, TF-30, TF-33, and J-60 turbofan and turbojet engines. UH-60 UTTAS and CH-53 SEA STALLION helicopters. |
| 3. General Dynamics Corp. | F-16 and F-111 fighter aircraft. AEGIS and Standard Arm missiles. MK-15 close-in weapon system. Nuclear submarines. |
| 4. General Electric Co. | Nuclear submarines. F-18 fighter aircraft engines. UH-60 UTTAS helicopter engines. MINUTEMAN missile. Miscellaneous electronics and communications equipment. |
| 5. Boeing Co. | B-52 STRATO FORTRESS, C-135 STRATOLIFTER, CH-47 CHINOOK and H-46 SEA KNIGHT aircraft. ROLAND and AWACS missile systems. RDT&E for transportation systems and other defense. |
| 6. Lockheed Corp. | TRIDENT and POLARIS missile systems. P-3 ORION, C-141 STARLIFTER, C-5 GALAXY, and C-130 HERCULES aircraft. Space vehicles. Amphibious assault ships. |
| 7. Hughes Aircraft Co. | TOW, SHORAD, PHOENIX, ROLAND, MAVERICK, and TRIDENT missile systems. Radar equipment and guided missile systems for A-6 INTRUDER, F-14 TOMCAT, and F-15 EAGLE aircraft. R&D for electronics and communications equipment and missile and space systems. |

8. Raytheon Co. PATRIOT, SPARROW, and HAWK missile systems.
Underwater sound equipment.
Miscellaneous electronics and communications equipment.
9. Grumman Corp. F-14 TOMCAT, E-2 HAWKEYE, A-16 INTRUDER, and EA-6B PROWLER aircraft.
Electronic countermeasures for F-111 aircraft.
10. Chrysler Corp. M1 and M60 tanks.
RDT&E for tank-automotive.
11. Litton Industries, Inc. Guided missile cruisers, guided missile components, and various electronics and communications equipment.
12. Martin Marietta Corp. Space vehicles.
155mm projectiles.
RDT&E for missile and space systems and electronics and communications equipment.
13. Philbro Corp. Petroleum
14. Exxon Corp. Petroleum
15. Tenneco, Inc. Aircraft carriers and nuclear submarines.
16. Rockwell International Corp. RDT&E for missile and space systems.
Miscellaneous electronics and communications equipment.
17. Westinghouse Electric Corp. Nuclear reactors.
Electronic systems.
RDT&E for electronics and communications equipment.
18. FMC Corp. Infantry fighting vehicles.
Guided missile launchers, guns, and RDT&E for tank-automotive.

INDEX OF 100 PARENT COMPANIES WHICH WITH THEIR SUBSIDIARIES RECEIVED THE
LARGEST DOLLAR VOLUME OF PRIME CONTRACT AWARDS IN FISCAL YEAR 1981

7

| RANK | PARENT COMPANY | RANK | PARENT COMPANY |
|------|--------------------------------------|------|------------------------------------|
| 74. | AEROSPACE CORP (N) | 31. | L T V CORP |
| 56. | AGIP S P A | 87. | LEAR SIEGLER INC |
| 53. | AL HUSEINI | 11. | LITTON INDUSTRIES, INC |
| 42. | AMERADA HESS CORP | 6. | LOCKHEED CORP |
| 52. | AMERICAN MOTORS CORP | 12. | MARTIN MARIETTA CORP |
| 24. | AMERICAN TELEPHONE + TELEGRAPH CO | 92. | MASON CHAMBERLAIN INC |
| 78. | ASHLAND OIL INC | 82. | MASSACHUSETTS INSTITUTE TECHNOLOGY |
| 32. | ATLANTIC RICHFIELD CO | 1. | MCDONNELL DOUGLAS CORP |
| 37. | AVCO CORP | 90. | MITRE (THE) CORP (N) |
| 40. | BENDIX CORP | 46. | MOBIL CORP |
| 5. | BOEING CO | 91. | MORRISON-KNUDSEN CO, INC |
| 68. | BRITISH PETROLEUM CO LTD | 29. | MOTOR OIL HELLAS |
| 80. | BURROUGHS CORP | 72. | MOTOROLA INC |
| 89. | CHIN HUENG INTL & GENERAL CONTR JV | 45. | NORTH AMERICAN PHILIPS CORP |
| 10. | CHRYSLER CORP | 26. | NORTHROP CORP |
| 28. | COASTAL CORP | 61. | PACIFIC RESOURCES INC |
| 47. | CONGOLEUM CORP | 63. | PAN AMERICAN WORLD AIRWAYS INC |
| 83. | CONTROL DATA CORP | 73. | PENN CENTRAL CORP |
| 96. | DUCHOSSOIS THRALL CO | 13. | PHILBRO CORP |
| 94. | DUPONT E I DE NEMOURS + CO | 62. | PRIDE REFINING CO |
| 57. | E SYSTEMS, INC | 21. | R C A CORP |
| 98. | EASTMAN KODAK CO | 8. | RAYTHEON CO |
| 65. | EMERSON ELECTRIC CO | 49. | REYNOLDS R I INDUSTRIES INC |
| 88. | EX CELL O CORP | 97. | ROARDA INC |
| 14. | EXXON CORP | 16. | ROCKWELL INTERNATIONAL CORP |
| 18. | F M C CORP | 67. | ROYAL DUTCH SHELL GROUP |
| 41. | FAIRCHILD INDUSTRIES, INC | 75. | SANDERS ASSOCIATES INC |
| 33. | FORD MOTOR CO | 81. | SCIENCE APPLICATIONS INC |
| 77. | G A T X CORP | 64. | SIGNAL COMPANIES INC (THE) |
| 3. | GENERAL DYNAMICS CORP | 30. | SINGER CO |
| 4. | GENERAL ELECTRIC CO | 20. | SPERRY CORP |
| 27. | GENERAL MOTORS CORP | 19. | STANDARD OIL CO OF CALIF |
| 43. | GENERAL TELEPHONE + ELECTRONICS CORP | 60. | STANDARD OIL OF INDIANA |
| 54. | GENERAL TIRE + RUBBER CO | 84. | SUMMA CORP |
| 59. | GETTY OIL CO | 71. | SUN CO INC |
| 51. | GOODYEAR TIRE + RUBBER CO | 34. | T R W INC |
| 85. | GOULD, INC | 35. | TELEDYNE INC |
| 9. | GRUMMAN CORP | 15. | TENNECO INC |
| 36. | GUAM OIL + REFINING CO INC | 50. | TEXACO INC |
| 93. | GULF OIL CORP | 25. | TEXAS INSTRUMENTS INC |
| 58. | HARRIS CORP | 38. | TEXTRON INC |
| 55. | HERCULES, INC | 79. | THIokol CORP |
| 22. | HONEYWELL INC | 39. | TODD SHIPYARDS CORP |
| 66. | HOUSTON OIL & REFINING INC | 100. | TRANSAMERICA CORP |
| 7. | HUGHES AIRCRAFT CO | 69. | U S & SOUTH AMERICAN ENTERPRISES |
| 70. | I C C I & AL MIRAIBID ETAL JV 1/ | 2. | UNITED TECHNOLOGIES CORP |
| 23. | INTERNATIONAL BUSINESS MACHINES CO | 44. | VINNELL CORP |
| 48. | INTERNATIONAL TELEPHONE + TEL CORP | 17. | WESTINGHOUSE ELECTRIC CORP |
| 76. | JOHNS HOPKINS UNIVERSITY (N) | 86. | WILLIAMS INTERNATIONAL CORP |
| 99. | KUWAIT NATIONAL PETROLEUM CO LTD | 95. | XEROX CORP |

1/ Indonesian Consortium of Construction Industries/Al Miraibid Establishment JV

100 COMPANIES AND THEIR SUBSIDIARIES LISTED ACCORDING TO
NET VALUE OF PRIME CONTRACT AWARDS

FISCAL YEAR 1981
(1 OCT 1980 - 30 SEP 1981)

| RANK | COMPANIES | THOUSANDS OF DOLLARS | PERCENT OF TOTAL | CUMULATIVE PERCENT OF TOTAL |
|------|---|--|------------------------|-----------------------------------|
| | T O T A L | \$97,388,528 ===== | 100.00 | 100.00 |
| | TOTAL, 100 COMPANIES + THEIR SUBSIDIARIES | 64,659,865 ===== | 66.39 | 66.39 |
| 1. | MCDONNELL DOUGLAS CORP MCDONNELL DOUGLAS ELECTRONICS CO | 4,408,458 1,016 ----- | | |
| | TOTAL | 4,409,474 | 4.53 | 4.53 |
| 2. | UNITED TECHNOLOGIES CORP CARRIER INTERNATIONAL CORP ESSEX GROUP INC INMONT CORP NORDEN SYSTEMS INC OTIS ELEVATOR CO | 3,679,285 3,334 1,884 57 90,774 257 ----- | | |
| | TOTAL | 3,775,591 | 3.88 | 8.41 |
| 3. | GENERAL DYNAMICS CORP DATAGRAPHIX GMBH DATAGRAPHIX INC STROMBERG CARLSON CORP | 3,380,318 58 11,144 10,961 ----- | | |
| | TOTAL | 3,402,481 | 3.49 | 11.90 |
| 4. | GENERAL ELECTRIC CO CANADIAN GENERAL ELECTRIC CO, LTD GENERAL ELECTRIC MEDICAL SYSTEMS GENERAL ELECTRIC TECH SVC CO INC MANAGEMENT + TECHNICAL SERVICES CO | 2,927,810 218 257 19 26,430 ----- | | |
| | TOTAL | 2,954,734 | 3.03 | 14.93 |
| 5. | BOEING CO BOEING AEROSPACE CO BOEING COMPUTER SERVICES INC BOEING SERVICES INTERNATIONAL INC BOEING VERTOL CO | 1,891,624 458,398 8,508 63,619 260,583 ----- | | |
| | TOTAL | 2,682,732 | 2.75 | 17.68 |
| 6. | LOCKHEED CORP LOCKHEED CALIFORNIA CO LOCKHEED ELECTRONICS CO, INC LOCKHEED MISSILES + SPACE CO INC LOCKHEED SHIPBUILDING CONSTRUCTION MURDOCK MACHINE + ENGR CO OF TEXAS | 1,064,439 961 56,455 1,183,729 350,866 124 ----- | | |
| | TOTAL | 2,656,574 | 2.73 | 20.41 |
| 7. | HUGHES AIRCRAFT CO HUGHES RESEARCH LABS. SANTA BARBARA RESEARCH CENTER | 2,509,878 1,650 40,884 ----- | | |
| | TOTAL | 2,552,412 | 2.62 | 23.03 |

| RANK | COMPANIES | THOUSANDS OF DOLLARS | PERCENT OF TOTAL | CUMULATIVE PERCENT OF TOTAL |
|------|------------------------------------|----------------------------|------------------------|-----------------------------------|
| 8. | RAYTHEON CO | 1,668,793 | | |
| | AMANA REFRIGERATION INC | 43 | | |
| | AMRAD INC | 38 | | |
| | BEECH AEROSPACE SERVICES | 38,765 | | |
| | BEECH AIRCRAFT CORP | 43,909 | | |
| | CALORIC CORP | 35 | | |
| | DENVER BEECHCRAFT | 345 | | |
| | INDIANA BEECHCRAFT INC | 150 | | |
| | IOWA MFG CO OF CEDAR RAPIDS IOWA | 364 | | |
| | KURAS ALTERMAN CORP | 3,702 | | |
| | LEXITRON CORP | 2,770 | | |
| | LORAC SERVICE CORP | 157 | | |
| | MACHLETT LABORATORIES INC | 4,487 | | |
| | RAYTHEON DATA SYSTEMS CO | 240 | | |
| | RAYTHEON GULF SYSTEMS CO | 12,275 | | |
| | RAYTHEON MARINE CO | 320 | | |
| | RAYTHEON OCEAN SYSTEMS CO | 141 | | |
| | RAYTHEON SERVICE CO | 29,439 | | |
| | RAYTHEON TECHNICAL ASSISTANCE CO | 19,482 | | |
| | SWITCHCRAFT INC | 228 | | |
| | UNITED ENGINEERS + CONSTRUCTORS | 262 | | |
| | TOTAL | 1,825,945 | 1.87 | 24.90 |
| 9. | GRUMMAN CORP | 6,056 | | |
| | GRUMMAN AEROSPACE CORP | 1,696,965 | | |
| | GRUMMAN DATA SYSTEMS CORP | 7,345 | | |
| | TOTAL | 1,710,366 | 1.76 | 26.66 |
| 10. | CHRYSLER CORP | 21,435 | | |
| | CHRYSLER DEFENSE INC | 1,392,932 | | |
| | TOTAL | 1,414,367 | 1.45 | 28.11 |
| 11. | LITTON INDUSTRIES, INC | 80,197 | | |
| | BELOIT POWER SYSTEMS | 240 | | |
| | DIEHL DATA SYSTEMS | 95 | | |
| | KOEHLER DAYTON | 16 | | |
| | LITTON BIONETICS INC | 12 | | |
| | LITTON BUSINESS SYSTEMS, INC | 319 | | |
| | LITTON INDUSTRIAL PRODUCTS INC | 2,334 | | |
| | LITTON MEDICAL PRODUCTS, INC | 66 | | |
| | LITTON PRECISION PRODS INTL INC | 499 | | |
| | LITTON SYSTEMS INC | 1,300,806 | | |
| | MONROE BUSINESS EQUIPMENT CO INC | 13 | | |
| | MONROE CALCULATING CO | 253 | | |
| | MONROE INTERNATIONAL INC | 19 | | |
| | SWEDA INTERNATIONAL INC | 67 | | |
| | TOTAL | 1,384,936 | 1.42 | 29.53 |
| 12. | MARTIN MARIETTA CORP | 1,223,217 | | |
| | INTERNATIONAL LASER SYSTEMS INC | 11,651 | | |
| | MARTIN MARIETTA ALUMINUM INC | 294 | | |
| | MARTIN MARIETTA ALUMINUM SALES INC | 46,911 | | |
| | MARTIN MARIETTA DATA SYSTEMS INC | 4,921 | | |
| | TOTAL | 1,286,994 | 1.32 | 30.85 |
| 13. | PHILBRO CORP | 509 | | |
| | DERBY + CO INC | 1,222,558 | | |
| | TOTAL | 1,223,067 | 1.26 | 32.11 |

| RANK | COMPANIES | THOUSANDS OF DOLLARS | PERCENT OF TOTAL | CUMULATIVE PERCENT OF TOTAL |
|------|------------------------------------|----------------------------|------------------------|-----------------------------------|
| 14. | EXXON CORP | 1,007,749 | | |
| | ESSO A G | 51,829 | | |
| | ESSO ITALIANA S P A | 1,520 | | |
| | ESSO OFFICE SYSTEMS, INC | 59 | | |
| | ESSO PETROL CO LTD | 281 | | |
| | ESSO S A F | 28 | | |
| | EXXON CO USA | 88,787 | | |
| | EXXON RESEARCH + ENGINEERING CO | 441 | | |
| | RELANCE ELECTRIC CO | 1,543 | | |
| | TOTAL | 1,152,237 | 1.18 | 33.29 |
| 15. | TENNECO INC | | | |
| | CASE (JI) CO | 16,892 | | |
| | CASE POWER + EQUIPMENT LTD | 41 | | |
| | GAS EQUIPMENT ENGRS, INC | 701 | | |
| | K C L CORPORATION | 13 | | |
| | MONROE AUTO EQUIPMENT CO | 514 | | |
| | NEWPORT NEWS SHIPBLD + DRY DOCK CO | 1,133,056 | | |
| | PACKAGING CORP OF AMERICA | 50 | | |
| | TENNECO CHEMICALS, INC | 54 | | |
| | TOTAL | 1,151,321 | 1.18 | 34.47 |
| 16. | ROCKWELL INTERNATIONAL CORP | 1,124,562 | | |
| | ADMIRAL CORP | 33 | | |
| | UNICOM SYSTEMS INC | 421 | | |
| | WESCOM INC | 951 | | |
| | TOTAL | 1,125,967 | 1.16 | 35.63 |
| 17. | WESTINGHOUSE ELECTRIC CORP | 1,122,739 | | |
| | WESTINGHOUSE AIRPORT SYSTEMS | 25 | | |
| | WESTINGHOUSE DATASCORE SYSTEMS | 49 | | |
| | WESTINGHOUSE ELECTRIC SUPPLY CO | 1,721 | | |
| | WESTINGHOUSE ELEVATOR CO | 97 | | |
| | WESTINGHOUSE LEARNING CORP | 117 | | |
| | TOTAL | 1,124,748 | 1.15 | 36.78 |
| 18. | F M C CORP | 1,052,488 | 1.03 | 37.86 |
| 19. | STANDARD OIL CO OF CALIF | 87 | | |
| | CALTEX ASIA LTD | 840 | | |
| | CALTEX OIL PRODUCTS CO <u>1/</u> | 149,471 | | |
| | CALTEX OVERSEAS LTD | 336 | | |
| | CHEVRON INTERNATIONAL OIL CO, INC | 1,255 | | |
| | CHEVRON OIL CO | 773 | | |
| | CHEVRON U S A INC | 819,028 | | |
| | TOTAL | 971,790 | 1.00 | 38.86 |
| 20. | SPERRY CORP | 928,144 | 0.95 | 39.81 |
| 21. | R C A CORP | 861,953 | | |
| | HERTZ CORP | 1,626 | | |
| | HERTZ EQUIPMENT RENTAL CORP | 218 | | |
| | R C A ELECTRO OPTICS & DEVICES | 13 | | |
| | R C A GLOBAL COMMUNICATIONS, INC | 12,784 | | |
| | R C A MOBILE COMMUNICATIONS | 232 | | |
| | TOTAL | 876,826 | 0.90 | 40.71 |

1/ Stock ownership in the Caltex Companies is equally divided between Standard Oil of California and Texaco, Inc.

| RANK | COMPANIES | THOUSANDS OF DOLLARS | PERCENT OF TOTAL | CUMULATIVE PERCENT OF TOTAL |
|------|------------------------------------|----------------------------|------------------------|-----------------------------------|
| 22. | HONEYWELL INC | 692,175 | | |
| | ELECTRONICS FOR MEDICINE | 492 | | |
| | HONEYWELL INFORMATION SYSTEMS, INC | 144,418 | | |
| | INCOTERM CORP | 86 | | |
| | SKINNER PRECISION INDUSTRIES INC | 47 | | |
| | SPECTRONICS INC | 994 | | |
| | TOTAL | 838,212 | 0.86 | 41.57 |
| 23. | INTERNATIONAL BUSINESS MACHINES CO | 801,788 | | |
| | DISCO VISION ASSOCIATES | 181 | | |
| | I B M DEUTSCHLAND GMBH | 2,560 | | |
| | SCIENCE RESEARCH ASSOCIATES INC | 49 | | |
| | TOTAL | 804,578 | 0.83 | 42.40 |
| 24. | AMERICAN TELEPHONE + TELEGRAPH CO | 331,627 | | |
| | BELL TELEPHONE CO OF PA | 734 | | |
| | CHESAPEAKE + POTOMAC TEL CO OF DC | 43,587 | | |
| | ILLINOIS BELL TEL CO | 289 | | |
| | MICHIGAN BELL TEL CO | 631 | | |
| | MOUNTAIN BELL TELEPHONE CO | 4,886 | | |
| | NEW ENGLAND TEL + TEL CO | 861 | | |
| | NEW JERSEY BELL TELEPHONE CO | 255 | | |
| | NEW YORK TELEPHONE CO | 1,199 | | |
| | NORTHWESTERN BELL TELEPHONE CO | 1,014 | | |
| | OHIO BELL TELEPHONE CO | 2,522 | | |
| | PACIFIC NORTHWEST BELL TELEPHONE | 433 | | |
| | PACIFIC TELEPHONE + TELEGRAPH CO | 2,704 | | |
| | SOUTH CENTRAL BELL TEL CO | 2,359 | | |
| | SOUTHERN BELL TELEPHONE + TELEGRPH | 3,306 | | |
| | SOUTHWESTERN BELL TELEPHONE | 5,832 | | |
| | TELETYPE CORP | 35,563 | | |
| | WESTERN ELECTRIC CO INC | 251,899 | | |
| | TOTAL | 694,701 | 0.71 | 43.11 |
| 25 | TEXAS INSTRUMENTS INC | 625,080 | 0.64 | 43.75 |
| 26. | NORTHROP CORP | 529,155 | | |
| | NORTHROP INTERNATIONAL ACFT INC | 1,991 | | |
| | NORTHROP SERVICES INC | 832 | | |
| | NORTHROP WORLDWIDE ACFT SVCS INC | 91,036 | | |
| | NORTHROP CAROLINA INC | | | |
| | TOTAL | 623,014 | 0.64 | 44.39 |
| 27 | GENERAL MOTORS CORP | 621,618 | 0.64 | 45.03 |
| 28 | COASTAL CORP | | | |
| | BELCHER NEW ENGLAND INC | 8,206 | | |
| | BELCHER OIL CO | 43,335 | | |
| | BELCHER OIL CO OF CAPE CANAVERAL | 8,220 | | |
| | BELCHER TERMINALS INC | 10,963 | | |
| | COASTAL BERMUDA | 31,700 | | |
| | COASTAL STATES ENERGY CO | 273 | | |
| | COASTAL STATES MARKETING INC | 449,462 | | |
| | COASTAL STATES TRADING INC | 58,368 | | |
| | PACIFIC REFINING CO | 5,899 | | |
| | TOTAL | 616,426 | 0.63 | 45.66 |

| RANK | COMPANIES | THOUSANDS OF DOLLARS | PERCENT OF TOTAL | CUMULATIVE PERCENT OF TOTAL |
|------|---------------------------------|----------------------------|------------------------|-----------------------------------|
| 29. | MOTOR OIL HELLAS | 583,470 | 0.60 | 46.26 |
| 30. | SINGER CO | 546,456 | | |
| | FRIDEN MAILING EQUIPMENT CORP | 73 | | |
| | H R B SINGER, INC | 18,008 | | |
| | TOTAL | 564,537 | 0.58 | 46.84 |
| 31. | L T V CORP | 5,928 | | |
| | JONES & LAUGHLIN STEEL INC | 715 | | |
| | KENTRON HAWAII LTD | 36,060 | | |
| | KENTRON INTERNATIONAL INC | 18,279 | | |
| | LYKES BROS STEAMSHIP CO INC | 25,959 | | |
| | SKAGIT CORP | 38 | | |
| | VOUGHT CORP | 454,011 | | |
| | WILSON + CO INC | 6,858 | | |
| | WILSON FOODS CORP | 548 | | |
| | TOTAL | 548,396 | 0.56 | 47.40 |
| 32. | ATLANTIC RICHFIELD CO | 5,869 | | |
| | ANACONDA ALUMINUM CO | 185 | | |
| | ANACONDA CO | 2,846 | | |
| | ANACONDA INDUSTRIES | 54 | | |
| | ARCO PETROLEUM CO | 537,923 | | |
| | ARCO PIPE LINE CO | 81 | | |
| | WRIGHT OIL CO INC | 425 | | |
| | TOTAL | 547,383 | 0.56 | 47.96 |
| 33 | FORD MOTOR CO | 5,656 | | |
| | FORD AEROSPACE + COMMUNICATIONS | 537,988 | | |
| | TOTAL | 543,644 | 0.56 | 48.52 |
| 34 | T R W INC | 395,422 | | |
| | AERTECH INDUSTRIES | 844 | | |
| | E S L INC | 87,654 | | |
| | HARTZELL PROPELLER INC | 83 | | |
| | T R W COLORADO ELECTRONICS, INC | 32,486 | | |
| | T R W TECHNICAL RESEARCH CENTER | 86 | | |
| | TOTAL | 516,575 | 0.53 | 49.05 |
| 35 | TELEDYNE INC | 52,903 | | |
| | MICRONETICS INC | 397 | | |
| | ORDNANCE SPECIALTIES INC | 373 | | |
| | TELEDYNE AEROSPACE SYSTEMS | 190 | | |
| | TELEDYNE AMCO | 10 | | |
| | TELEDYNE ANALYTICAL INSTRUMENTS | 12 | | |
| | TELEDYNE AVIONICS | 1,539 | | |
| | TELEDYNE BATTERY PRODUCTS | 103 | | |
| | TELEDYNE BROWN ENGINEERING | 45,854 | | |
| | TELEDYNE C A E | 29,879 | | |
| | TELEDYNE CAMERA SYSTEMS | 2,993 | | |
| | TELEDYNE CAST PRODUCTS | 21 | | |
| | TELEDYNE CONTROLS | 2,430 | | |
| | TELEDYNE CRYSTALONICS | 161 | | |
| | TELEDYNE ELECTRONICS | 28,755 | | |
| | TELEDYNE ENGINEERING SERVICE | 100 | | |
| | TELEDYNE EXPLORATION | 23 | | |
| | TELEDYNE FARRIS ENGINEERING | 226 | | |
| | TELEDYNE FIRTH STERLING INC | 4,723 | | |
| | TELEDYNE GEOTECH | 2,059 | | |

| RANK | COMPANIES | THOUSANDS OF DOLLARS | PERCENT OF TOTAL | CUMULATIVE PERCENT OF TOTAL |
|------|----------------------------------|----------------------------|------------------------|-----------------------------------|
| 35. | TELEDYNE INC | | | |
| | TELEDYNE GURLEY | 174 | | |
| | TELEDYNE HANAU ENGINEERING | 87 | | |
| | TELEDYNE HASTINGS RAYDIST | 466 | | |
| | TELEDYNE HYDRA POWER | 2,778 | | |
| | TELEDYNE INDUSTRIES, INC | 279,246 | | |
| | TELEDYNE INET INC | 1,258 | | |
| | TELEDYNE ISOTOPIES | 12 | | |
| | TELEDYNE KINETICS | 60 | | |
| | TELEDYNE LANDIS MACHINE CO | 311 | | |
| | TELEDYNE LEWISBURG | 4,267 | | |
| | TELEDYNE LINAIR ENGINEERING | 15 | | |
| | TELEDYNE M E C | 23,993 | | |
| | TELEDYNE MCCORMICK SELPH | 8,788 | | |
| | TELEDYNE MCKAY | 71 | | |
| | TELEDYNE MICROELECTRONICS | 93 | | |
| | TELEDYNE MICROWAVE | 25 | | |
| | TELEDYNE MONARCH RUBBER | 344 | | |
| | TELEDYNE NATIONAL | 265 | | |
| | TELEDYNE OSTER | 62 | | |
| | TELEDYNE PHILBRICK | 26 | | |
| | TELEDYNE PINES | 70 | | |
| | TELEDYNE RELAYS | 211 | | |
| | TELEDYNE REPUBLIC MFG | 1,005 | | |
| | TELEDYNE SEMICONDUCTOR | 218 | | |
| | TELEDYNE SPRAGUE ENGINEERING | 220 | | |
| | TELEDYNE TABER | 40 | | |
| | TELEDYNE THERMATICS | 1,058 | | |
| | TELEDYNE WALTERBORO | 74 | | |
| | TELEDYNE WESTERN WIRE & CABLE | 188 | | |
| | TELEDYNE WISCONSIN MOTOR | 366 | | |
| | TOTAL | 498,552 | 0.51 | 49.56 |
| 36. | GUAM OIL + REFINING CO INC | 496,477 | 0.51 | 50.07 |
| 37. | AVCO CORP | 475,517 | | |
| | AVCO EMBASSY PICTURES CORP | 106 | | |
| | AVCO EVERETT RESEARCH LABORATORY | 17,116 | | |
| | TOTAL | 492,739 | 0.51 | 50.58 |
| 38. | TEXTRON INC | 471,370 | | |
| | BELL HELICOPTER INTL INC | 28 | | |
| | BELL TECHNICAL OPERATIONS CORP | 7,510 | | |
| | E-Z GO CAR CORP | 20 | | |
| | JACOBSEN MFG CO | 59 | | |
| | TOTAL | 478,987 | 0.49 | 51.07 |
| 39. | TODD SHIPYARDS CORP | 468,004 | | |
| | DESIGNERS + PLANNERS, INC | 4,147 | | |
| | TOTAL | 472,151 | 0.48 | 51.55 |
| 40. | BENDIX CORP | 416,383 | | |
| | BENDIX AUTOLITE CORP | 494 | | |
| | BENDIX FIELD ENGINEERING CORP | 35,945 | | |
| | COURTER INC | 3,385 | | |
| | FRAM CORP | 71 | | |
| | WARNER & SWASEY CO | 2,007 | | |
| | TOTAL | 458,285 | 0.47 | 52.02 |

| RANK | COMPANIES | THOUSANDS OF DOLLARS | PERCENT OF TOTAL | CUMULATIVE PERCENT OF TOTAL |
|------|--|---|------------------------|-----------------------------------|
| 41. | FAIRCHILD INDUSTRIES, INC AMERICAN SATELLITE CORP GREER HYDRAULICS INC V S I CORP ----- | 450,207 2,050 835 4,570 ----- | | |
| | TOTAL | 457,662 | 0.47 | 52.49 |
| 42. | AMERADA HESS CORP HESS OIL VIRGIN ISLANDS CORP ----- | 102,608 345,574 ----- | | |
| | TOTAL | 448,182 | 0.46 | 52.95 |
| 43. | GENERAL TELEPHONE + ELECTRONICS CORP G T E AUTOMATIC ELECTRIC INC G T E INFORMATION SYSTEMS, INC G T E LABORATORIES, INC G T E LENKURT, INC G T E PRODUCTS CORP G T E SYLVANIA INC GENERAL TELEPHONE CO OF CALIFORNIA GENERAL TELEPHONE CO OF FLORIDA GENERAL TELEPHONE CO OF ILLINOIS GENERAL TELEPHONE CO OF SOUTHEAST GENERAL TELEPHONE CO OF SOUTHWEST HAWAIIAN TELEPHONE CO ----- | 404 1,637 589 706 32,763 377,699 32 600 10 685 696 10,474 ----- | | |
| | TOTAL | 426,295 | 0.44 | 53.39 |
| 44. | VINNELL CORP | 409,591 | 0.42 | 53.81 |
| 45. | NORTH AMERICAN PHILIPS CORP AIRPAX AIRPAX ELECTRONICS INC AMPEREX ELECTRONIC CORP ANCHOR BRUSH CO INC CHICAGO MAGNETIC WIRE CO GENERAL ATRONICS CORP KULKA ELECTRIC CORP LUSTRA LIGHTING CORP MAGNAVOX ADVANCED PROD & SYS CO MAGNAVOX CO MAGNAVOX DATA SYSTEMS INC MAGNAVOX GOVT + INDUSTRIAL ELEC CO MEPCO ELECTRA INC NORTH AMERICAN PHILIPS CONTROLS CO NORTH AMERICAN PHILIPS LTG CORP PHILIPS BUSINESS SYSTEMS INC PHILIPS ELECTRONIC INSTRUMENTS INC PHILIPS ELMET CORP PHILIPS MEDICAL SYSTEMS INC PHILIPS TEST & MEASURING INSTRS SMITH HERMAN H INC THOMPSON HAYWARD CHEMICAL CO VERD A RAY CORP ----- | 1,284 224 4,812 3,419 39 415 11,108 13 10 5,315 125,637 248 247,656 200 1,340 903 109 561 96 3,039 31 27 152 11 ----- | | |
| | TOTAL | 406,649 | 0.42 | 54.23 |
| 46. | MOBIL CORP CONTAINER CORP OF AMERICA HYDRO CONDUIT CORP MOBIL OIL CORP MOBIL OIL NEW ZEALAND, LTD MOBIL OIL PHILIPPINES, INC MOBIL SHIPPING & TRANSPORTATION CO | 384,141 213 157 474 | | |

| RANK | COMPANIES | THOUSANDS OF DOLLARS | PERCENT OF TOTAL | CUMULATIVE PERCENT OF TOTAL |
|------|------------------------------------|----------------------------|------------------------|-----------------------------------|
| 46. | MOBIL CORP | | | |
| | TOTAL | 385,616 | 0.40 | 54.63 |
| 47. | CONGOLEUM CORP | | | |
| | BATH IRON WORKS CORP | 382,985 | | |
| | TOTAL | 382,985 | 0.39 | 55.02 |
| 48. | INTERNATIONAL TELEPHONE + TEL CORP | 229,316 | | |
| | FEDERAL ELECTRIC CORP | 81,779 | | |
| | I T T AEROSPACE CONTROLS | 30 | | |
| | I T T ARCTIC SERVICES | 1,590 | | |
| | I T T BARTON | 2,756 | | |
| | I T T BLACKBURN CORP | 14 | | |
| | I T T CONTINENTAL BAKING CO | 5,231 | | |
| | I T T COURIER TERMINAL SYSTEMS INC | 473 | | |
| | I T T ELECTRO OPTIC PRODUCTS | 97 | | |
| | I T T GENERAL CONTROLS, INC | 1,331 | | |
| | I T T GILFILLAN INC | 38,911 | | |
| | I T T GRINNELL CORP | 44 | | |
| | I T T GWALTNEY INC | 3,197 | | |
| | I T T HAMMEL DAHL CONOFLOW | 239 | | |
| | I T T HARPER, INC | 906 | | |
| | I T T HENZE SERVICE | 64 | | |
| | I T T JENNINGS | 766 | | |
| | I T T MARLOW PUMPS | 17 | | |
| | I T T NORTH ELECTRIC CO | 226 | | |
| | I T T POMONA ELECTRONICS INC | 13 | | |
| | I T T SHERATON CORP OF AMERICA | 14 | | |
| | I T T TELECOMMUNICATIONS CORP | 1,622 | | |
| | I T T VULCAN ELECTRIC | 48 | | |
| | I T T WORLD COMMUNICATIONS, INC | 9,438 | | |
| | J C C PUMP CO INC | 1,458 | | |
| | STANDARD ELEKTRIK LORENZ AG | 110 | | |
| | STANDARD TELEPHONES + CABLES, LTD | 99 | | |
| | U S TRANSMISSION SYSTEMS | 107 | | |
| | TOTAL | 379,896 | 0.39 | 55.41 |
| 49. | REYNOLDS R J INDUSTRIES INC | 19,366 | | |
| | DEL MONTE CORP | 11,289 | | |
| | DEL MONTE SALES CORP | 2,395 | | |
| | GRANNY GOOSE FOODS INC | 278 | | |
| | MORTON FROZEN FOODS | 71 | | |
| | R J R FOODS INC | 3,580 | | |
| | REYNOLDS R J TOBACCO CO | 21,337 | | |
| | SEA LAND INDUSTRIES INC | 207,527 | | |
| | SEA LAND SERVICE INC | 114,009 | | |
| | TOTAL | 379,852 | 0.39 | 55.80 |
| 50. | TEXACO INC | 45,554 | | |
| | CALTEX ASIA LTD | 839 | | |
| | CALTEX OIL PRODUCTS CO | 149,470 | | |
| | CALTEX OVERSEAS LTD ^{1/} | 335 | | |
| | DEUTSCHE TEXACO VERKAUF GMBH | 4,493 | | |
| | TEXACO INTERNATIONAL TRADER INC | 176,226 | | |
| | TEXACO PANAMA INC | 886 | | |
| | TEXACO UK LTD | 1,880 | | |
| | TOTAL | 379,683 | 0.39 | 56.19 |

^{1/} Stock ownership in the Caltex Companies is equally divided between Texaco, Inc., and Standard Oil of California.

| RANK | COMPANIES | THOUSANDS OF DOLLARS | PERCENT OF TOTAL | CUMULATIVE PERCENT OF TOTAL |
|------|--|--|------------------------|-----------------------------------|
| 51. | GOODYEAR TIRE + RUBBER CO DEUTSCHE GOODYEAR GMBH GOODYEAR AEROSPACE CORP MOTOR WHEEL CORP | 94,425 40 244,207 2,936 | | |
| | TOTAL | 341,608 | 0.35 | 56.54 |
| 52. | AMERICAN MOTORS CORP A M GENERAL CORP MERCURY PLASTICS CO | 51 325,915 762 | | |
| | TOTAL | 326,728 | 0.34 | 56.88 |
| 53. | AL HUSEINI | 323,890 | 0.33 | 57.21 |
| 54. | GENERAL TIRE + RUBBER CO AEROJET GENERAL CORP AEROJET LIQUID ROCKET CO AEROJET SERVICES CO AEROJET STRATEGIC PROPULSION CO AEROJET TACTICAL SYSTEMS JOHNSTON PUMP CO | 1,968 307,318 25 71 1,829 10,306 305 | | |
| | TOTAL | 321,822 | 0.33 | 57.54 |
| 55. | HERCULES, INC ADRIA LABORATORIES INC HAVEG INDUSTRIES INC | 280,174 892 57 | | |
| | TOTAL | 281,123 | 0.29 | 57.83 |
| 56. | AGIP S P A AGIP PETROLEUM CO INC | 265,562 13,032 | | |
| | TOTAL | 278,594 | 0.29 | 58.12 |
| 57. | E SYSTEMS, INC ELECTRONIC COMMUNICATIONS INC SERV AIR INC | 264,798 638 9,565 | | |
| | TOTAL | 275,001 | 0.28 | 58.40 |
| 58. | HARRIS CORP | 263,789 | 0.27 | 58.67 |
| 59. | GETTY OIL CO ASSOCIATED OIL CO GETTY REFINING & MARKETING CO | 135,554 139 109,427 | | |
| | TOTAL | 245,120 | 0.25 | 58.92 |
| 60. | STANDARD OIL OF INDIANA AMOCO OIL CO AMOCO UNITED KINGDOM | 234,446 8,663 | | |
| | TOTAL | 243,109 | 0.25 | 59.17 |
| 61. | PACIFIC RESOURCES INC GASCO INC HAWAIIAN INDEPENDENT REFINERY INC | 7,149 235,942 | | |
| | TOTAL | 243,091 | 0.25 | 59.42 |

| RANK | COMPANIES | THOUSANDS OF DOLLARS | PERCENT OF TOTAL | CUMULATIVE PERCENT OF TOTAL |
|------|----------------------------------|----------------------------|------------------------|-----------------------------------|
| 62. | PRIDE REFINING CO | 242,680 | 0.25 | 59.67 |
| 63. | PAN AMERICAN WORLD AIRWAYS INC | 238,829 | 0.25 | 59.92 |
| 64. | SIGNAL COMPANIES INC (THE) | 10 | | |
| | AIRESEARCH AVIATION CO | 54 | | |
| | AIRESEARCH MFG CO | 491 | | |
| | AIRESEARCH MFG CO OF ARIZONA | 15,370 | | |
| | AIRESEARCH MFG CO OF CALIFORNIA | 34,983 | | |
| | AMPEX CORP | 18,635 | | |
| | DUNHAM BUSH INC | 997 | | |
| | GARRETT CORP | 156,664 | | |
| | MACK TRUCKS INC | 254 | | |
| | PETROLEUM HEAT + POWER CO, INC | 315 | | |
| | PRECISION RUBBER PRODUCTS CORP | 69 | | |
| | SOUTHLAND OIL CORP | 10,494 | | |
| | TOTAL | 238,336 | 0.24 | 60.16 |
| 65. | EMERSON ELECTRIC CO | 222,618 | | |
| | ATWOOD & MORRILL CO INC | 52 | | |
| | CHANCE A B CO | 3,637 | | |
| | FLOW TECHNOLOGY INC | 130 | | |
| | RIDGE TOOL CO | 190 | | |
| | ROSEMOUNT INC | 10,388 | | |
| | SWECO INC | 15 | | |
| | TOTAL | 237,030 | 0.24 | 60.40 |
| 66. | HOUSTON OIL & REFINING INC | 228,756 | 0.23 | 60.63 |
| 67. | ROYAL DUTCH SHELL GROUP | | | |
| | SHELL CHEMICAL INC | 227 | | |
| | SHELL CO OF THE ISLAND | 1,226 | | |
| | SHELL CURACAO N V | 81,229 | | |
| | SHELL EASTERN PETROLEUM PTE LTD | 56,357 | | |
| | SHELL INTERNATIONAL | 5,556 | | |
| | SHELL NEDERLAND | 5,035 | | |
| | SHELL OIL CO | 72,942 | | |
| | SHELL UK LTD | 5,203 | | |
| | TOTAL | 227,775 | 0.23 | 60.86 |
| 68. | BRITISH PETROLEUM CO LTD | 97 | | |
| | B P AUSTRALIA LTD | 5,297 | | |
| | B P NORTH AMERICA LTD | 206,679 | | |
| | B P OIL CORP | 146 | | |
| | B P TRADING LTD | 10,667 | | |
| | CARBORUNDUM CO | 451 | | |
| | DORR OLIVER INC | 27 | | |
| | KENNECOTT CORP | 197 | | |
| | STANDARD OIL CO OF OHIO | 73 | | |
| | TOTAL | 223,634 | 0.23 | 61.09 |
| 69. | U S & SOUTH AMERICAN ENTERPRISES | 222,709 | 0.23 | 61.32 |

| RANK | COMPANIES | THOUSANDS OF DOLLARS | PERCENT OF TOTAL | CUMULATIVE PERCENT OF TOTAL |
|------|------------------------------------|----------------------------|------------------------|-----------------------------------|
| 70. | I C C I & AL MIRAIBID ETAL JV | 205,465 | 0.21 | 61.53 |
| 71. | SUN CO INC | 197,101 | | |
| | SUN PETROLEUM PRODUCTS CO | 1,292 | | |
| | SUN SHIPBUILDING + DRY DOCK CO | 2,622 | | |
| | TOTAL | 201,015 | 0.21 | 61.74 |
| 72. | MOTOROLA INC | 198,597 | | |
| | MOTOROLA SEMICONDUCTOR PRODUCTS | 338 | | |
| | TEGAL CORP | 78 | | |
| | UNIVERSAL DATA SYSTEMS INC | 101 | | |
| | TOTAL | 199,114 | 0.20 | 61.94 |
| 73. | PENN CENTRAL CORP | | | |
| | AERO MECHANISM INC | 99 | | |
| | AUTOMATION INDUSTRIES INC | 177,686 | | |
| | EDGINGTON OIL CO INC | 1,908 | | |
| | G & H TECHNOLOGY INC | 796 | | |
| | G K TECHNOLOGIES INC | 555 | | |
| | MARATHON BATTERY CO | 13,009 | | |
| | MARATHON LE TOURNEAU CO | 609 | | |
| | MARATHON MFG CO | 11 | | |
| | SPRAGUE ELECTRIC CO | 1,284 | | |
| | VITRO ENGINEERING CORP | 3,015 | | |
| | TOTAL | 198,972 | 0.20 | 62.14 |
| 74. | AEROSPACE CORP (N) | 198,931 | 0.20 | 62.34 |
| 75. | SANDERS ASSOCIATES INC | 188,849 | | |
| | CALIFORNIA COMPUTER PRODUCTS INC | 1,596 | | |
| | TOTAL | 190,445 | 0.20 | 62.54 |
| 76. | JOHNS HOPKINS UNIVERSITY (N) | 186,765 | 0.19 | 62.73 |
| 77. | G A T X CORP | 225 | | |
| | AL TECH SPECIALTY STEEL CORP | 10 | | |
| | FULLER CO | 115 | | |
| | G A T X TERMINALS CORP | 430 | | |
| | MARINE TRANSPORT LINES INC | 185,077 | | |
| | TOTAL | 185,857 | 0.19 | 62.92 |
| 78. | ASHLAND OIL INC | 5,535 | | |
| | ALLIED OIL CO | 331 | | |
| | ASHLAND CHEMICAL CO | 3,138 | | |
| | ASHLAND PETROLEUM CO | 161,869 | | |
| | CASHCO INC | 24 | | |
| | DREW CHEMICAL CORP | 500 | | |
| | EASTERN SEABOARD PETROLEUM CO, INC | 7,233 | | |
| | FILTRUL CORP | 641 | | |
| | HOLMES & NARVER INC | 1,894 | | |
| | MICROPUL CORP | 74 | | |
| | RILEY BEAIRD INC | 481 | | |
| | RILEY STOKER CORP | 42 | | |
| | WILLIAMS BROS ENGINEERING CO | 301 | | |
| | TOTAL | 182,063 | 0.19 | 63.11 |

| RANK | COMPANIES | THOUSANDS OF DOLLARS | PERCENT OF TOTAL | CUMULATIVE PERCENT OF TOTAL |
|------|------------------------------------|----------------------------|------------------------|-----------------------------------|
| 79. | THIOKOL CORP | 177,356 | 0.18 | 63.29 |
| 80. | BURROUGHS CORP | 106,985 | | |
| | GRAPHIC SCIENCES INC | 342 | | |
| | REDACTRON CORP | 185 | | |
| | SYSTEM DEVELOPMENT CORP | 69,158 | | |
| | TOTAL | 176,670 | 0.18 | 63.47 |
| 81. | SCIENCE APPLICATIONS INC | 172,424 | 0.18 | 63.65 |
| 82. | MASSACHUSETTS INSTITUTE TECHNOLOGY | 165,489 | 0.17 | 63.82 |
| 83. | CONTROL DATA CORP | 161,147 | | |
| | COMMA CORP | 25 | | |
| | KEROTEST MFG CORP | 121 | | |
| | SERVICE BUREAU CORP THE | 63 | | |
| | TOTAL | 161,356 | 0.17 | 63.99 |
| 84. | SUMMA CORP | 141,944 | | |
| | HUGHES HELICOPTERS INC | 11,618 | | |
| | TOTAL | 153,562 | 0.16 | 64.15 |
| 85. | GOULD, INC | 128,366 | | |
| | CHESAPEAKE INSTRUMENT CORP | 39 | | |
| | DELTEC CORP | 112 | | |
| | I T E IMPERIAL CORP | 9,296 | | |
| | S R L MEDICAL INC | 29 | | |
| | SYSTEMS ENGINEERING LABS INC | 13,615 | | |
| | TOTAL | 151,457 | 0.16 | 64.31 |
| 86. | WILLIAMS INTERNATIONAL CORP | 148,108 | 0.15 | 64.46 |
| 87. | LEAR SIEGLER INC | 144,197 | 0.15 | 64.61 |
| 88. | EX CELL O CORP | 9,546 | | |
| | ACCURATE BUSHING CO | 189 | | |
| | CADILLAC GAGE CO | 127,549 | | |
| | MCCORD CORP | 2,077 | | |
| | ROCKFORD MACHINE TOOL CO | 261 | | |
| | TOTAL | 139,622 | 0.14 | 64.75 |
| 89. | CHIN HUENG INTL & GENERAL CONTR JV | 139,321 | 0.14 | 64.89 |
| 90. | MITRE (THE) CORP (N) | 136,697 | 0.14 | 65.03 |

| RANK | COMPANIES | THOUSANDS OF DOLLARS | PERCENT OF TOTAL | CUMULATIVE PERCENT OF TOTAL |
|------|--|--|------------------------|-----------------------------------|
| 91. | MORRISON-KNUDSEN CO, INC FERGUSON (H K) CO NATIONAL STEEL + SHIPBUILDING CO | 41,862 15,869 78,933 | | |
| | TOTAL | 136,664 | 0.14 | 65.17 |
| 92. | MASON CHAMBERLAIN INC | 135,555 | 0.14 | 65.31 |
| 93. | GULF OIL CORP GULF OIL GREAT BRITIAN LTD GULF OIL TRADING CO GULF PETROLEUM SA PANAMA GULF RESEARCH + DEVELOPMENT CO GULF TRADING & TRANSPORT CO HARSHAW CHEMICALS CO INDUSTRIAL ASPHALT INC KEWANEE BOILER CORP KOREA OIL CORP | 127,483 360 733 52 86 284 972 210 2,951 969 | | |
| | TOTAL | 134,100 | 0.14 | 65.45 |
| 94. | DUPONT E I DE NEMOURS + CO ENDO LABORATORIES, INC NEW ENGLAND NUCLEAR CORP REMINGTON ARMS CO, INC | 14,047 483 15 118,183 | | |
| | TOTAL | 132,728 | 0.14 | 65.59 |
| 95. | XEROX CORP FUJI-XEROX CO, LTD GINN + CO KOREA XEROX CO LTD RANK XEROX LTD XEROX DATA SYSTEMS, INC XEROX ELECTRO OPTICAL SYSTEMS INC XEROX LEARNING SYSTEMS | 57,799 1,547 10 776 2,156 227 69,609 62 | | |
| | TOTAL | 132,186 | 0.14 | 65.73 |
| 96. | DUCHOSSOIS THRALL CO CHAMBERLAIN MFG CORP | 131,362 131,362 | | |
| | TOTAL | 131,362 | 0.13 | 65.86 |
| 97. | ROARDA INC | 128,250 | 0.13 | 65.99 |
| 98. | EASTMAN KODAK CO EASTMAN KODAK STORES INC HOLSTON DEFENSE CORP KODAK EXPORT, LTD | 82,794 223 42,567 47 | | |
| | TOTAL | 125,631 | 0.13 | 66.12 |
| 99. | KUWAIT NATIONAL PETROLEUM CO LTD | 121,840 | 0.13 | 66.25 |
| 100. | TRANSAMERICA CORP TRANS INTERNATIONAL AIRLINES CORP TRANSAMERICA DELAVAL INC UNITED ARTISTS CORP | 85,393 32,963 253 | | |
| | TOTAL | 118,609 | 0.12 | 66.37 |